

ABOUT US

The department of Post Harvest Technology mainly focuses on post harvest losses, post harvest processing and packaging of horticulture crops, processing technology and value addition of important horticulture crop. The major areas of research includes; (i) development & dissemination of technology for reducing drudgery, cost and time of various farm operations for Horticultural crops; (ii) to teach and train the students, farmers, traders and processors in the field of postharvest technology; (iii) development and dissemination of processing technology for pomegranate and (iv) development of protocols of various value products of horticultural crops. The department also offers teaching services to UG and PG students. The department also conducts extension drive to transfer the technology to farmers by organizing farmers' meet, farmers' training, expert talk and workshops.

RECOMMENDATION

Sr. No.	Recommendation	Year
1	As per the experiment, The farmers were recommended to use low cost poly solar dryer to dry fennel umbel at fast drying rate (9.37 kg/h) as compared to shade drying rate (2.43 kg/hr) per batch. In low cost ploy solar dryer, the produce can also be protected from insect, bird damage, excreta of rodents and birds, unseasonal rain and wind storm which resulted better quality produce which is desirable for export promotion of produce. With the use of low cost poly solar dryer, 42 hrs could be saved per batch as compared to shade and 20 hrs.	2013
2	The farmers and exporters are recommended to use low cost solar cabinet dryer to dry fresh chilly. The drying rate for drying of chilly under solar dryer was 121.64 gm/hr whereas drying rate for drying of chilly under poly solar dryer was 68.38 gm/hr. The net profit Rs. 18.44/kg would be found using solar dryer as compared to Rs. 15.57/kg in case of poly solar dryer. In case of drying under solar dryer and poly solar dryer, the product can be protected from insect, bird damage, excreta of rodents and birds, unseasonal	2016

	rain and wind storm which resulted better quality produced. With the use of solar dryer, 23 hrs could be saved per batch as compared to poly solar dryer and 195 hrs as compared to open sun drying method. For maintaining red colour of the dried produce with little bit higher net return about Rs.5.00/kg using poly solar dryer but fast drying under solar dryer is recommended as alternative drying method	
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ADVANCED INSTRUMENTATION FACILITIES

Sr. No.	Name of Instruments
1	Digital Pocket Refractor Meter
2	Nova Tray Dryer with stainless Steel Tray
3	Pomegranate Juice Machine
4	Juice Pouch Filling & Sealing Machine
5	Vacuum oven
6	Bomb Calorimeter with oxygen cylinder
7	Hydraulic Juice Press (Motorized)
8	Steam Jacketed Kettle (with agitator)
9	Bottle Vacuum Filling Machine (with vacuum pump)
10	Juice Pasteurizer
11	Rotary Fruit & Vegetables Washing Machine
12	Deep Freezer (Vertical)
13	Walk - in- Cold Room
14	Vacuum sealing Machine
15	Solar Dryer
16	Automatic oil distillation unit
17	Microwave oven

RESEARCH AREA / AREA OF INTEREST/ THRUST AREA

1. Development & dissemination of technology for reducing drudgery, cost and time of various farm operations for Horticultural crops.
2. To teach and train the students, farmers, traders and processors in the field of postharvest technology.
3. Development and dissemination of processing technology for pomegranate.
4. Development of protocols of various value products of horticultural crops.

EXTENSION ACTIVITIES ORGANISED

Sr. No.	Title of the Programme	Types of Programme	Year
1	Success stories - 3	Success stories	2013
2	Demonstration on Cumin and Fennel crops in farmer fields (NAIP B. H. 2072-2)	Conducting Front Line Demonstration(20 farmers)	2013
3	<i>Demonstration on Cumin and Fennel crops in farmer fields (NAIP B. H. 2072-2)</i>	Conducting Front Line Demonstration(20 farmers)	2014
4	Beej masala paknikapanipachhiniprakriya, Dated: 25/02/2015	TV Talk-video developed	2014
5	Masala pako ma kapanukapanipachhinuvyavasthapan, Dated: 20/01/2016	TV Talk-video developed	2015
6	<i>Demonstration on Cumin and Fennel crops in farmer fields (NAIP B. H. 2072-2)</i>	Conducting Front Line Demonstration(30 farmers)	2015
7	Success stories-1	Success stories-	2016
8	<i>Demonstration on Cumin and Fennel crops in farmer fields (NAIP B. H. 2072-2)</i>	Conducting Front Line Demonstration(30 farmers)	2016
9	<i>Demonstration on Cumin and Fennel crops in farmer fields (NAIP B. H. 2072-2)</i>	Conducting Front Line Demonstration(30 farmers)	2017
10	<i>Demonstration on Cumin and Fennel crops in farmer fields (NAIP B. H. 2072-2)</i>	Conducting Front Line Demonstration(30 farmers)	2018